

## **Principles of controlling a single-photon radiation state using optically thick resonant media**

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### **Abstract**

The propagation of a single-photon wave packet in a thick resonant absorber if it undergoes rapid displacement at a certain instant after the beginning of a wave packet emission is investigated theoretically and experimentally. This displacement was found to yield a radiation burst at the absorber output. © Allerton Press, Inc., 2012.

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